User manual for Radial blower RG 100
Part no:
132-101-0000 (12V-version)
132-102-0000 (24V-version)

Design:
The blower consists of housing with cap, a fan wheel, a motor and a sealing frame of cellular rubber.
The air outlet diameter of the blower is 52x36 mm.

Function:
The air enters axial into the fan wheel, than the air will be radial turned round and leaves on the area vertical to the suction direction.

Material:
The housing and the radial wheel consist of polyamide, black, 35% glass-fiber-reinsertion. This material is high temperature-resistant and because of the glass-fiber-reinforcement it has a high stability.

Motor:
The drive motor is a DC-motor.
The motor assembly has type-approval according ECE R10 (EMC)

Technical data:
Nominal voltage: 12V/24V
Test voltage: 13V/26V
Values according measuring of the 12V-version:
V_L = 100 m^3/h (free-blowing)
P_{el} = 26W
L_p = 60 dB(A)

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Technical changes reserved

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Maintenance instruction:
Advice for installation and maintenance work:
The rules for the prevention of accidents as well as other recognises technical and labour medical security regulations must be observed.

CAUTION: Do not grip into the fan wheel!

The blower is principle maintenance- and service-free. However, it is advisable to clean the blower regularly and perform regular visual inspections.
It is also important to ensure that the air intake and outlet is not blocked.

We recommend the following sight checks:

Check blower for proper condition:

a) Contamination into the air suction or outlet area.
   If needed, clean (in build-out state)
   Cleaning with compressed air, if necessary, cleaning cloth or brush
   Caution: no use of water!
b) Damages into housing, cap, fan wheel
   Check functional impairment by this damage
c) Foreign parts into the wheel
   - remove

Note: the blower carbon brush is a wearing part. If the carbon brushes are outworn, defective or contaminated, the motor will not run or not in a suitable way.

At any service interval (depending on usage situation) the blower function has to be checked and the blower has to be changed, if necessary.

The check of the blower in a disconnected state:

- optical check on
  - physical damage on the housing, the air grille or the fan wheel
  - contamination, dust, corrosion and other, that impair the function
- stiffness

Then a function check is recommended

- abnormal noises
- uneven running
- fluctuating current consumption
- a decrease of air flow rate
- blower don't run under voltage any more

If one or more of these impairments apply, the blower function is not given any more and the blower has to be replaced.
During check pay attention to the necessary safety advises.

Spare parts:
For this product no spare parts available.
If needed the complete radial blower has to be ordered with number 132-101-0000 (12V) and/or 132-102-0000 (24V).

Characteristic curve (the 12V-version was measured)